



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

ATG

D5355-041
Job Sheet 183376



Part No: D5355-041

Job Qty: 2 ea

DAS
21
9-09

Part Name: Aft Clamp Assembly



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/17/18

Job Tracking No:

Due Date: 9/28/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Ship Via:

111
9
ATG
NOV.19

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	2 Ea	9/28/18	9/28/18	0.00	0.00	Start Up Machining-4		18-11-09
100	Bandsaw	2 pcs	9/28/18	9/28/18	0.00	0.01	Bandsaw1		18-11-12
110	CNC Vertical Machining	2 pcs	9/28/18	9/28/18	1.21	0.86	HAAS 5 Axis		18-11-13
120	QC	2 pcs	9/28/18	9/28/18	0.00	0.00	QC2 Machining-4		18-11-13
130	QC	2 pcs	9/28/18	9/28/18	0.00	0.00	QC8 Machining-4		18-11-13
140	Outsource	2 pcs	9/28/18	9/28/18			ATG001-VC	10	18-11-13
150	Packaging	2 pcs	9/28/18	9/28/18	0.00	0.00	Packaging2		NOV 21 2018
155	QC	2 pcs	9/28/18	9/28/18	0.00	0.00	QC6		38
160	Small Fab	2 pcs	9/28/18	9/28/18	0.00	0.41	Small Fab-9		38
170	QC	2 pcs	9/28/18	9/28/18	0.00	0.00	QC5		38
180	Packaging	2 pcs	9/28/18	9/28/18	0.00	0.00	Packaging3-2		NOV 21 2018
190	QC21-SA	2 Ea	9/28/18	9/28/18	0.00	0.00	QC21		NOV 21 2018

Part Op 100 - Cut Blanks at 6.200"

Descriptions: 110 - 1-Machine per folio FB434 DWG REV: C FOLIO REV: 11 2- deburr and break all sharp edge as per dwg

140 - Issue P/O to ATG 200-11-08 Black Anodize as per Dwg D5355 Certification of Conformity is required.

150 - Certification of Conformity is required.

160 - Assemble as per dwg. -Secure nuts as per dwg. (Note #8) -Apply proseal as per dwg. (Note #9)

Batch: 138976 Exp. date: 6/19

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6B1.250X4.500	6061-T6 Bar 1.25 X 4.50	1.0340 ft (.517 ea)	90-Start up Operation	5092913
D5316-1	T-Bolt Strap	9 Ea (1 ea)	160-Small Fab	5126547
D5351-1	T-Bolt Spacer	18 Ea (2 ea)	160-Small Fab	5102088
MS21043-3	Nut	18 Ea (2 ea)	160-Small Fab	5121279
NAS1149D0332J	Washer	18 Ea (2 ea)	160-Small Fab	5109966
				5100407

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M6061T6B1.250X4.500	1	4	0
160-Small Fab	D5316-1	2	19	0
	D5351-1	4	13	0
	MS21043-3	4	1,507	0
	NAS1149D0332J	4	2,488	0

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Part Specifications

Specifications could not be found.

Plex 9/17/18 10:45 AM Dart.lajeunesse.marie



Container No: S126560



Part: D5355 - 041

Job No: 183376

Serial No/Batch: S126560

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 11/09/18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

DART AEROSPACE LTD		Work Order:	183378
Description:		Part Number:	D5355091
Inspection Dwg:	Rev:	Page 1 of 1	

INSPECTION SHEET

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.00	+/- .030	1.000	✓		SL10	VEIN
0.50	+/- .030	.500	✓			
φ.204	+ .005 / - .001	.204	✓			
.22	+/- .030	.220	✓			
.204	+/- .010	.204	✓			
.274	+/- .010	.274	✓			
.31	+/- .030	.320	✓			
.20	+/- .030	.201	✓			
.33	+/- .030	.330	✓			
10°	+/- .5°	10°	✓		Protractor	
R.13	+/- .030	.130	✓		Rad gauge	
20°	+/- .5°	20°	✓		Protractor	
R.200	+/- .030	.200	✓		Rad gauge	
.560	+/- .030	.560	✓		SL10	VEIN
.40	+/- .030	.402	✓			
.21	+/- .030	.210	✓			
R.40	+/- .030	.400	✓			
.13	+/- .030	.125	✓		SL10	
R.29	+/- .030	.290	✓		Rad gauge	
.15	+/- .030	.150	✓		SL10	
1.28	+/- .030	1.270	✓			
.13	+/- .030	.125	✓			
R.25	+/- .030	.250	✓		Rad gauge	
1.200	+/- .005	1.198	✓		SL10	
2.00	+/- .030	2.000	✓			
.40	+/- .030	.398	✓			
.50	+/- .030	.4985	✓			
φ.257	+ .006 / - .001	.258	✓			
5.01	+/- .030	5.012	✓			

Measured by:	DAS 20	Checked by:		QC Inspector:	
Date:	18-11-08	Date:		Date:	

Engineering Approval: (If necessary)		Date:	
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Rev	Date	Change	Revised by	Approved
A	14.07.31	New Issue	KJ	

541
95
912

(1) 21



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041681**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041681
PO Date: 11/12/18
Due Date: 12/4/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pymt Terms: Net 30

Freight Terms:

Special Comments: * each line has different date, please confirm if dates are okay*

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	185893	D2348	Wearplate (Key Way) : Various STC's Issue P/O: Black Anodize per Dwg D2348 Rev. C	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$1.75/pcs	\$35.00
2	176341	RBT18649-1-4	Base -Issue P/O to ATG; PO -ANODIZE COLOR BLACK, PER IAW MIL- A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	-	12/4/18	6 pcs	0 pcs	6 pcs	\$7.30/pcs	\$43.80
3	178464	RBT112800-1	Base -Issue P/O to ATG: - ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEAL As per Dwg RBT112800 Rev. 3A -Certificate of Conformity is required	Firmed	-	12/4/18	6 pcs	0 pcs	6 pcs	\$4.75/pcs	\$28.50



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PURCHASE ORDER **PO041681**

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	178967	RBE703A94-1130-01-11	Angle Indicator - Issue P/O to ATG: ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEALANT - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.30/pcs	\$46.00
5	185611	D5581-4	Clip, Aft, RH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5581 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80
6	185588	D5590-2	Gusset, Inboard RH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5590 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	3 pcs	0 pcs	3 pcs	\$8.18/pcs	\$24.54
7	185600	D5581-3	Clip, Aft, LH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5581 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80



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PURCHASE ORDER **PO041681**

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	185596	D5579-1	Center Clip, Cable Cutter : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5579 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80
9	185587	D5590-1	Gusset, Inboard LH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5590 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	3 pcs	0 pcs	3 pcs	\$8.18/pcs	\$24.54
10	R185746-B	RBT400214-1	Frame Weld Mount -Issue P/O to ATG; PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Material type; 6061 -Certificate of Conformity is required	Firmed	-	12/4/18	2 pcs	0 pcs	2 pcs	\$3.68/pcs	\$7.36
11	184449	RBD29905-15	Center Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$3.68/pcs	\$36.80



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Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
12	178966	RBE703A94-1130-01-03	Bottom Fixture 1 -Issue P/O to ATG : PO - ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2 WATER SEALANT -Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$3.68/pcs	\$73.60
13	183376	D5355-041	Aft Clamp Assembly : Various STC's Issue P/O to ATG : Black Anodize as per Dwg D5355 Certification of Conformity is required.	Firmed	-	12/4/18	9 pcs	0 pcs	9 pcs	\$4.05/pcs	\$36.45
Line Item Note ** Need ASAP **											
14	180196	RBE703A94-1130-01-25	Tab Adjuster Handle -Issue P/O to ATG: - ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 Water Seal - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.65/pcs	\$53.00
15	178972	RBE703A94-1130-01-31	Tab Adjuster Gauge Plate -Issue P/O to ATG: - ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 Water Seal - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.55/pcs	\$51.00
16	172293	269T3319-7	Handle -Issue P/O to ATG: - ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEAL -Certificate of Conformity is required	Firmed	-	12/4/18	2 pcs	0 pcs	2 pcs	\$6.30/pcs	\$12.60

200



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PURCHASE ORDER **PO041681**

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
17	178974	RBE703A94-1130-01-09	Bottom Fixture 2 -Issue P/O to Groupe Altech: PO - ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2 WATER SEALANT -Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$3.68/pcs	\$73.60
Grand Total:											\$783.19

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/16/18 8:14 AM dart.tsimiklis.chrisoula



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 916497

Date: 15-Nov-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
9 ea	Part: D5355-041 Aft Clamp Assembly Black Anodize per MIL-A-8625F, Type II, Class 2, .0004-.0010" (.4 - 1 mils) Job: 24123	Rev: C PO: PO041681	Line: 13 DAS 38 9-89
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>15/11/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			

